Lorain® BD 2000

2000 Amp Battery Disconnect

Key Features

- Local and remote operation of disconnect
- Small footprint and multiple wiring attachment points allow for ease of installation
- Current monitoring is provided by a 25mV shunt included with each disconnect
- Battery recharge current limiting ability can increase battery life
- Safety features include a Lock Out-Tag Out (LO/TO) attachment point and a door latch that is tool-secured for restricted access
- Alarm options include a Form C, FA alarm, contactor status alarm and a door open alarm
- Two LED indicators provide a visual display of the status of the fuse and contactor
- A removable door permits easy wiring access during installation and maintenance
- Disconnect assists in compliance with local codes

Feature-rich design provides monitoring and control.

Description

The Lorain® BD 2000 is a modular DC to DC Battery Disconnect providing disconnection and overcurrent protection for +24VDC or -48VDC battery strings. Over-current protection is provided by a user-specified fuse rated from 1000 to 2000 amps. A shunt, included with the over-current protection device, measures charge and discharge current and can be monitored by a Lorain® VPS or LVS MCA, Emerson monitoring equipment, or any monitoring system using a 25mV shunt input. The disconnect can be wall mounted or 23-in. rack mounted as required. Separate remote and EPO inputs are standard features that allow for operation of the disconnect remotely for use in EPO or low-voltage disconnect applications.

The built-in shunt measures charge and discharge current for the batteries. Battery damage is prevented and battery life is increased with the use of a built-in Vortex® shunt card and a Lorain® VPS or LVS with the MCA set up to limit battery recharge current. An EPO switch can be connected to this disconnect to comply with local and national fire codes (NEC). Low-voltage controllers can be interfaced directly to this disconnect to provide protection of the batteries during discharge.

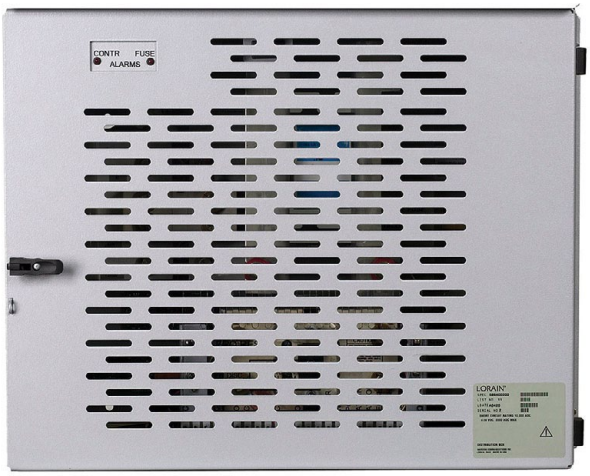
Safety and security features include a cover that can be locked in place during maintenance operations to prevent access to the battery fuses. A door alarm switch provides a set of contacts that will change state whenever the door is opened. Any access or operation of the door can be monitored using this feature. The door latch can also be tool-secured for restricted access.

Lorain® BD 2000 (Open)

EMERSON
Network Power

Application

The Emerson Network Power battery disconnect is ideal for a data center or central office application. For additional specification, engineering or installation information, specify model Lorain® BD 2000, specification number 586400200 for disconnect.



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Technical Specifications

586400200	
Rating (Amps)	1000-2000
Rated Voltage	60VDC
Operating Voltage	+24VDC/-48VDC
Max Size of Overcurrent Device	2000A Fuse
Dimensions (HxWxD)	10U x 21.38" x 11.63"
Weight	Net: 90 lbs., Shipping: 105 lbs.
Int Rating (kIAC)	100kAIC Fuse/10kAIC Disc
Compliance	UL/cUL Listed to 1801
FA Alarm Contact Rating	0.5A@125VAC, 1.0A@30VDC, 0.3A@110VDC
Door Alarm Contact Rating	1A - 125VAC, 2A - 24VDC, 0.1A - 125VDC
Operating Temperature	0-40°C
Mounting	Wall or 23" Relay Rack Mounted

EmersonNetworkPower.com/EnergySystems (North America)
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